WEEK-6 REACT

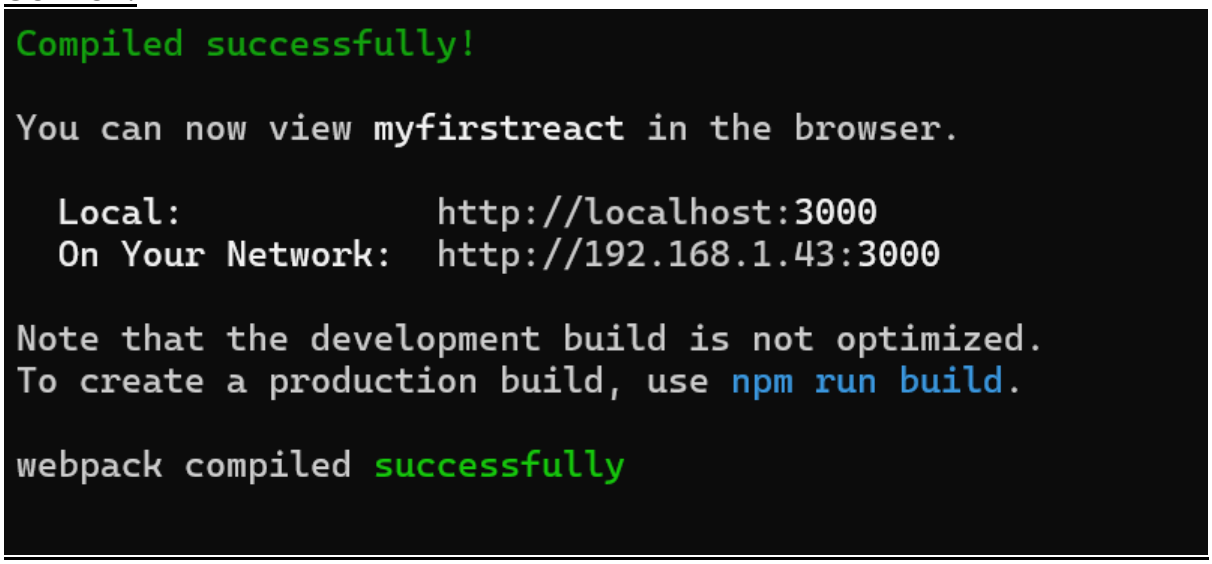
1.REACTJS-HOL

Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page.

App.js(IN VSCODE)

```
import React from 'react';

function App() {
  return (
    <div>
      <h1>Welcome to the first session of React</h1>
    </div>
  );
}

export default App;
```

OUTPUT:



Welcome to the first session of React

2.REACTJS-HOL

Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message “Welcome to the Home page of Student Management Portal”. Create another component named About and display the Message “Welcome to the About page of the Student Management Portal”. Create a third component named Contact and display the Message “Welcome to the Contact page of the Student Management Portal”. Call all the three components.

Components>Home.js

```
import React from 'react';
function Home() {
  return (
    <div>
      <h2>Welcome to the Home page of Student Management Portal</h2>
    </div>
  );
}
export default Home;
```

About.js

```
import React from 'react';
function About() {
  return (
    <div>
      <h2>Welcome to the About page of the Student Management Portal</h2>
    </div>
  );
}
export default About;
```

Contact.js

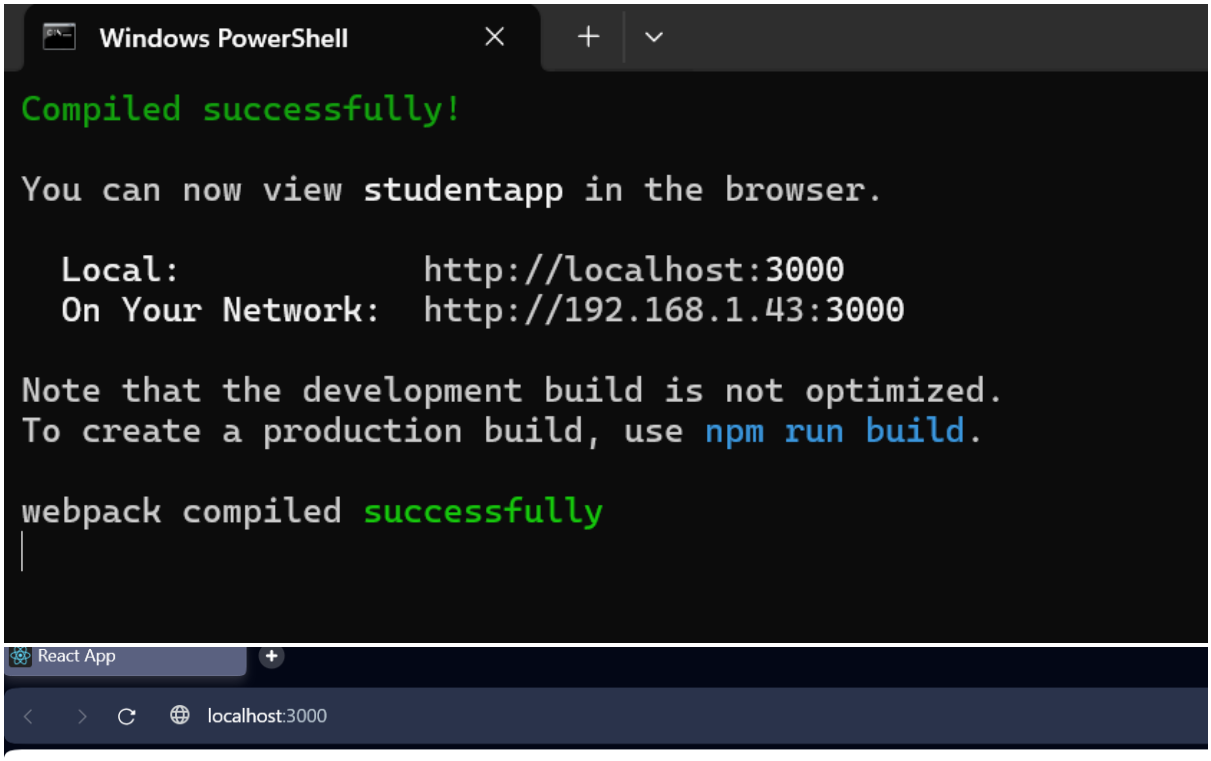
```
import React from 'react';
```

```
function Contact() {
  return (
    <div>
      <h2>Welcome to the Contact page of the Student Management Portal</h2>
    </div>
  );
}
export default Contact;
```

src > App.js

```
import React from 'react';
import Home from './Components/Home';
import About from './Components/About';
import Contact from './Components/Contact';

function App() {
  return (
    <div className="App">
      <h1>Student Management Portal</h1>
      <Home />
      <About />
      <Contact />
    </div>
  );
}
export default App;
```

OUTPUT:



3.REACTJS-HOL

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named “CalculateScore” which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

Components> CalculateScore.js

```
import React from 'react';

import '../Stylesheets/mystyle.css';


function CalculateScore() {

  const name = "Supraja";

  const school = "MRECW";
```

```
  const total = 450;
  const goal = 500;
  const average = (total / goal) * 100;
  return (
    <div className="score-container">
      <h2>Student Score Details</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Marks:</strong> {total}</p>
      <p><strong>Goal:</strong> {goal}</p>
      <p><strong>Average Score:</strong> {average.toFixed(2)}%</p>
    </div>
  );
}
export default CalculateScore;
```

mystyle.css

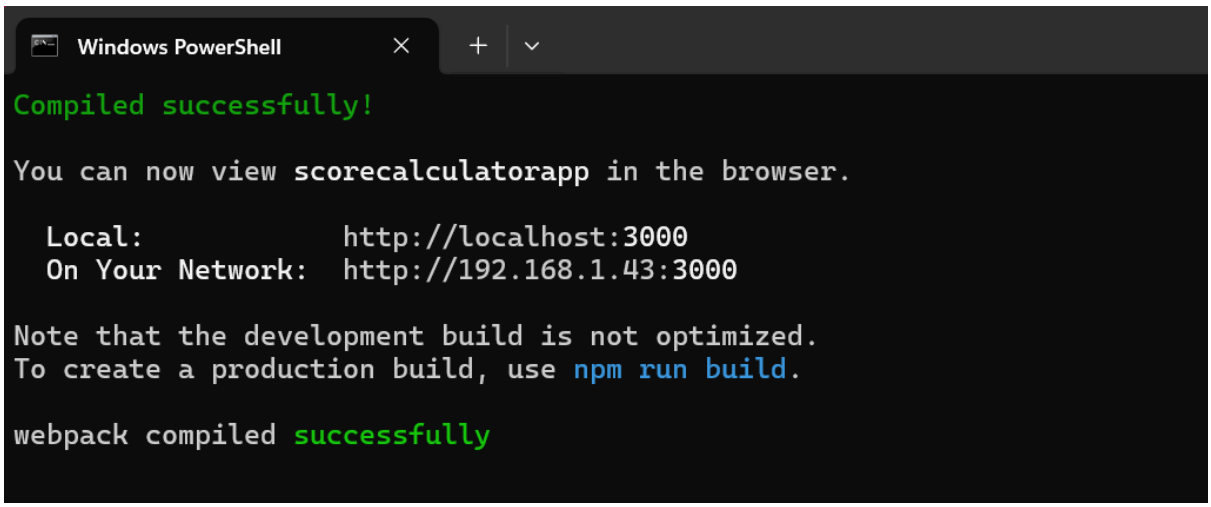
```
.score-container {
  background-color: #f0f8ff;
  border: 2px solid #4caf50;
  padding: 20px;
  margin: 30px auto;
  width: 60%;
  border-radius: 10px;
  box-shadow: 0px 0px 10px rgba(0,0,0,0.2);
  font-family: Arial, sans-serif;
}

.score-container h2 {
  color: #2e8b57;
  text-align: center;
}
```

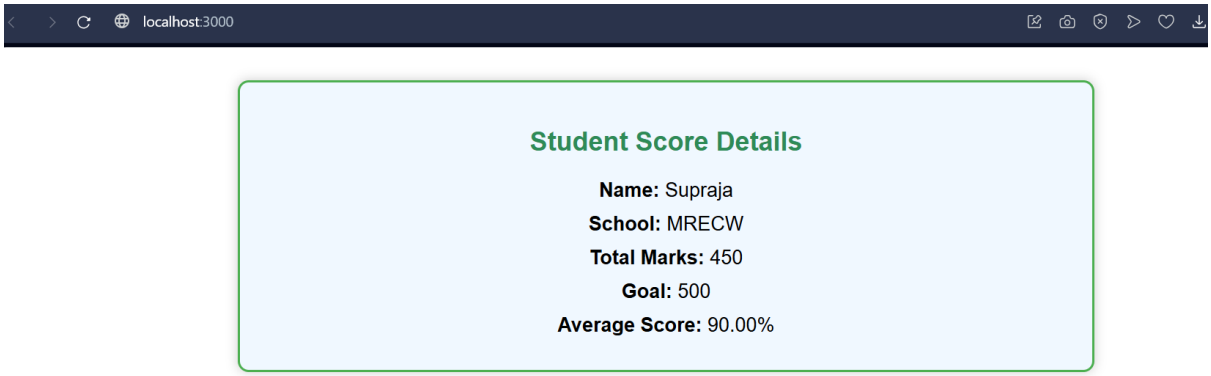
```
.score-container p {
  font-size: 18px;
  margin: 10px 0;
}
```

App.js

```
import React from 'react';
import './App.css';
import CalculateScore from './Components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore />
    </div>
  );
}
export default App;
```

OUTPUT:





4.REACTJS-HOL

Create a new react application using *create-react-app* tool with the name as “blogapp”

Post.js

```
// src/Post.js

class Post {
  constructor(id, title, body) {
    this.id = id;
    this.title = title;
    this.body = body;
  }
}

export default Post;
```

Posts.js

```
// src/Posts.js

import React, { Component } from 'react';
import Post from './Post';

class Posts extends Component {
  constructor(props) {
```

```
  super(props);
  this.state = {
    posts: [],
    hasError: false
  };
}

// Step 6: Fetch posts
loadPosts = () => {
  fetch('https://jsonplaceholder.typicode.com/posts')
    .then(response => {
      if (!response.ok) throw new Error('Network response was not ok');
      return response.json();
    })
    .then(data => {
      const postList = data.map(
        post => new Post(post.id, post.title, post.body)
      );
      this.setState({ posts: postList });
    })
    .catch(error => {
      console.error('Error loading posts:', error);
      this.setState({ hasError: true });
    });
};

// Step 7: Call loadPosts after mounting
componentDidMount() {
  this.loadPosts();
}

// Step 9: Error boundary
```

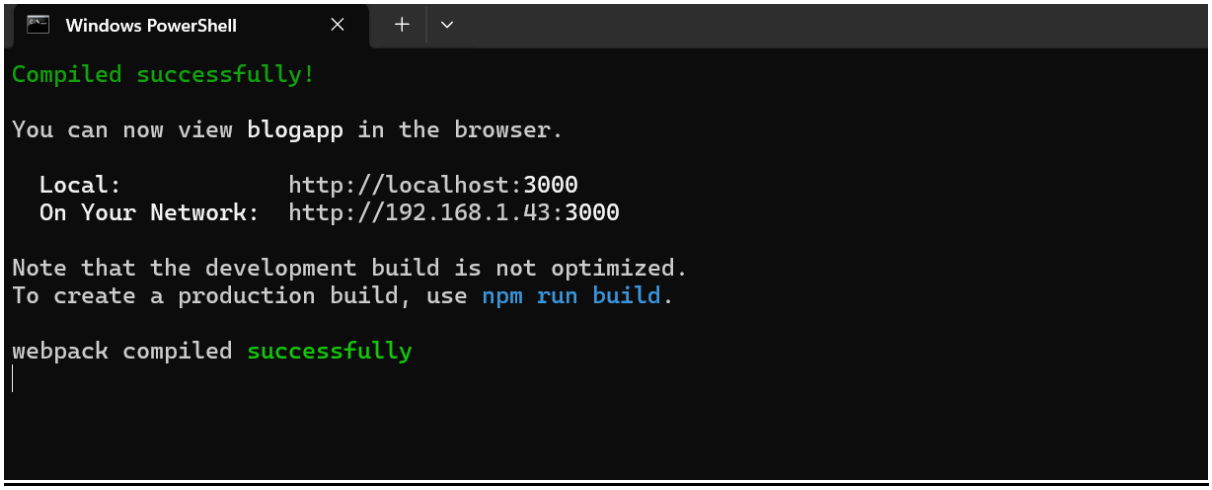
```
  componentDidCatch(error, info) {
    alert("An error occurred: " + error.toString());
    this.setState({ hasError: true });
  }

  // Step 8: Render posts
  render() {
    if (this.state.hasError) {
      return <h2>Something went wrong while loading posts.</h2>;
    }

    return (
      <div>
        <h1>Blog Posts</h1>
        {this.state.posts.map(post => (
          <div key={post.id} style={{ borderBottom: '1px solid #ccc', marginBottom: '10px' }}>
            <h2>{post.title}</h2>
            <p>{post.body}</p>
          </div>
        ))}
      </div>
    );
  }
}
export default Posts;
```

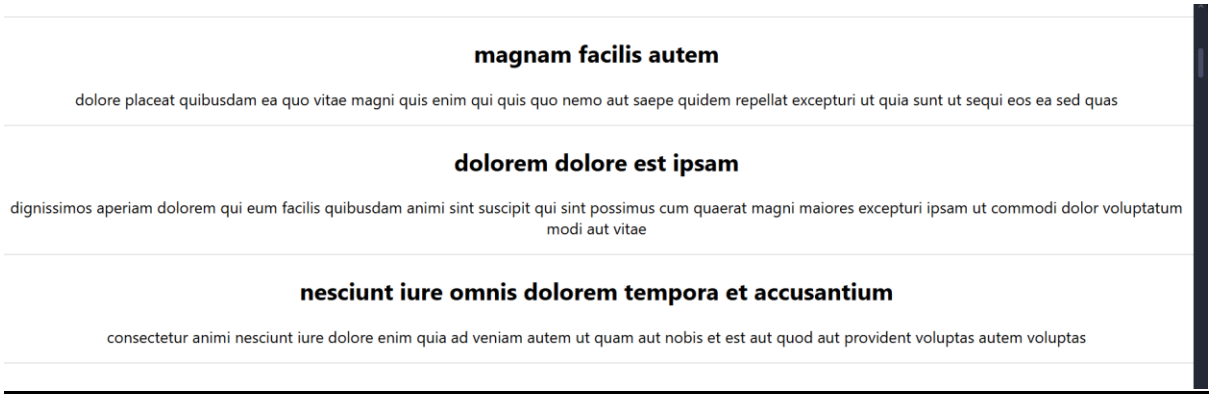
App.js

```
import React from 'react';
import './App.css';
import Posts from './Posts';

function App() {
```

```
  return (
    <div className="App">
      <Posts />
    </div>
  );
}

export default App;
```

OUTPUT:





5.REACTJS-HOL

CohortDetails.js

```
import styles from './CohortDetails.module.css';


function CohortDetails(props) {
  return (
<div className={styles.box}>
  <h3 style={{ color: props.status === "Ongoing" ? "green" : "blue" }}>
    {props.cohortName}
  </h3>
  <dl>
    <dt>Started On</dt>
    <dd>{props.startDate}</dd>


    <dt>Current Status</dt>
    <dd>{props.status}</dd>


    <dt>Coach</dt>
    <dd>{props.coach}</dd>


    <dt>Trainer</dt>
    <dd>{props.trainer}</dd>
  </dl>
</div>
```

```
  );
}
export default CohortDetails;
```

CohortDetails.module.css

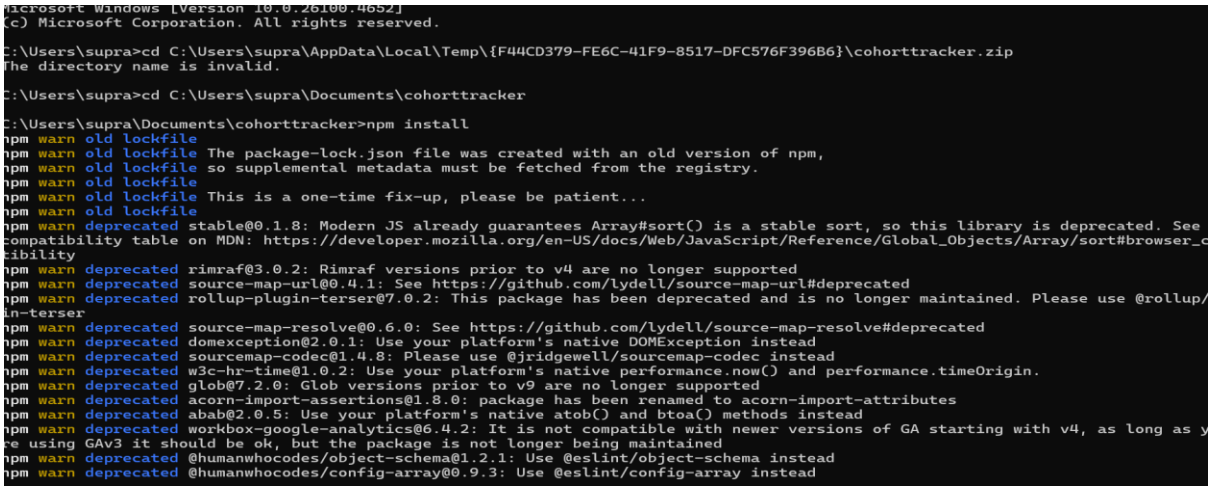
```
.box {
  width: 300px;
  display: inline-block;
  margin: 10px;
  padding: 10px 20px;
  border: 1px solid black;
  border-radius: 10px;
}
dt {
  font-weight: 500;
}
```

App.js

```
import logo from './logo.svg';
import './App.css';
import { CohortsData} from './Cohort'
import CohortDetails from './CohortDetails';

function App() {
  return (
  <div>
  <h1>Cohorts Details</h1>
  <CohortDetails
    cohortName="INTADMDF10 - .NET FSD"
    startDate="22-Feb-2022"
    status="Scheduled"
    coach="Aathma"
```

```
    trainer="Jojo Jose"
  />
  <CohortDetails
    cohortName="ADM21JF014 - Java FSD"
    startDate="10-Sep-2021"
    status="Ongoing"
    coach="Apoorv"
    trainer="Elisa Smith"
  />
  <CohortDetails
    cohortName="CDBJF21025 - Java FSD"
    startDate="24-Dec-2021"
    status="Ongoing"
    coach="Aathma"
    trainer="John Doe"
  />
</div>


  );
}
```

OUTPUT:



```
npm warn deprecated core-js-pure@3.21.0: core-js-pure@<3.23.3 is no longer maintained and not recommended for usage due to the number
of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothi
ng is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js-pur
e.
npm warn deprecated core-js@3.21.0: core-js@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues
. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is poly
filled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js.

added 1409 packages, and audited 1410 packages in 57s

169 packages are looking for funding
  run `npm fund` for details

64 vulnerabilities (6 low, 12 moderate, 30 high, 6 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

C:\Users\supra\Documents\cohorttracker>npm start

> cohortstracker@0.1.0 start
> react-scripts start

Browserslist: caniuse-lite is outdated. Please run:
Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.

assets by path static/ 1.51 MiB
  asset static/js/bundle.js 1.5 MiB [emitted] (name: main) 1 related asset
  asset static/js/node_modules_web-vitals_dist_web-vitals_js.chunk.js 6.93 KiB [emitted] 1 related asset
  asset static/media/logo.6ce24c58023cc2f8fd88fe9d219db6c6.svg 2.57 KiB [emitted] (auxiliary name: main)
asset index.html 1.67 KiB [emitted]
asset asset-manifest.json 546 bytes [emitted]
runtime modules 31.3 KiB 15 modules
modules by path ./node_modules/ 1.35 MiB 99 modules
modules by path ./src/ 26 KiB
  modules by path ./src/*.css 12.8 KiB
    ./src/index.css 2.72 KiB [built] [code generated]
    ./node_modules/css-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[1]!./node_modules/postcss-loader/dist/cjs.js??ruleSet[1].
rules[1].oneOf[5].use[2]!./node_modules/source-map-loader/dist/cjs.js!./src/index.css 1.37 KiB [built] [code generated]
    + 4 modules
  modules by path ./src/*.js 9.59 KiB
    ./src/index.js 1.8 KiB [built] [code generated]
    ./src/App.js 1.84 KiB [built] [code generated]
    + 3 modules
  ./src/logo.svg 3.61 KiB [built] [code generated]

WARNING in src\App.js
  Line 1:8:  'logo' is defined but never used  no-unused-vars

webpack 5.68.0 compiled with 1 warning in 17750 ms
```

localhost:3001

Cohorts Details

INTADMDF10 - .NET FSD

Started On
22-Feb-2022
Current Status
Scheduled
Coach
Aathma
Trainer
Jojo Jose

ADM21JF014 - Java FSD

Started On
10-Sep-2021
Current Status
Ongoing
Coach
Apoorv
Trainer
Elisa Smith

CDBJF21025 - Java FSD

Started On
24-Dec-2021
Current Status
Ongoing
Coach
Aathma
Trainer
John Doe